

# LIQUID LEVEL SENSOR WITH ODOR REDUCTION FOR WASTE HOLDING TANKS

## Abstract

A sensor for determining liquid level while reducing odor for use in a marine vessel or RV waste holding tank. The sensor includes an aeration tube and a pressure sensor. The aeration tube is disposed in a bottom portion of the holding tank. An aeration pump is in fluid communication with the aeration tube and the pressure sensor and supplies pressurized air to the aeration tube. The aeration tube is disposed in a bottom-most portion of the holding tank and is submerged in sewage. The pressure in the aeration tube is measured by the pressure sensor and the pressure is correlated to liquid level in the waste holding tank. Pressurized air from the aeration pump is injected into the sewage via the aeration tube and creates an oxygen-enriched aerobic environment therein. Air from the holding tank is continuously vented to atmosphere via a vent in the tank.